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Crop Microbiome: Structure and Function

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Message from the Guest Editors

One of the significant challenges faced by 21st-century agriculture is to sustainably produce increased amounts of healthier food under challenging environmental and sociological conditions. To tackle this growing crisis, increased efforts need to be devoted to understanding the plant microbiome for applications allowing for improved and more sustainable agricultural and horticultural practices. Despite the increasing recognition of the importance of the microbiome for plant growth and health, harnessing its genomic potential as a new platform for improved resilience against stresses of future crop production is a significant challenge. This research topic will highlight the current knowledge on the state-of-the-art in plant-microbiome interactions, as well as their specificity, diversity, and functions. Especially welcome are articles focused on engineering microbiomes with synthetic microbial communities capable of delivering agronomic and environmental solutions for a more sustainable future. Furthermore, all fundamental and applied studies of the management of plant microbiomes for increased plant productivity and climate resilience are encouraged.



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Special Issue



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Message from the Editor-in-Chief

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